

**M. D. / M.S. (AYURVED) PRELIMINARY (2017 COURSE) :**  
**WINTER - 2018**  
**SUBJECT : RESEARCH METHODOLOGY & MEDICAL STATISTICS**

Day : Monday  
Date : 03/12/2018

Time : 10.00 AM TO 01.00 PM  
Max. Marks : 100

**W-2018-3865**

N.B.

- 1) Figures to the **RIGHT** indicate **FULL** marks.
- 2) Use of statistical table and calculator is allowed **WHEREVER** necessary.
- 3) Answers to both the sections should be written in the **SEPARATE** answerbooks.

**SECTION – I**

Write **ANY TWO** long answer questions out of three.

- Q.1** Explain the concept of Pratyakshadi Praman & elaborate their role in Ayurveda (15)  
Sanshodhan Paddhati with example.
- Q.2** Write about observational studies and its methodology in details. (15)
- Q.3** Write in details about ethical aspects related to human experimentation and write (15)  
about IEC.
- Q.4** Write **ANY SIX** short notes out of seven. (30)
- a) TKDL
  - b) Traditional methods of Drug Research
  - c) Patent
  - d) External and Internal criticism
  - e) Primary and secondary data
  - f) API
  - g) Different styles of referencing

**SECTION – II**

- Q.5** Define the probability and describe the laws of probability. (15)
- Q.6** Test statistically if there is any significant difference in Hemoglobin after (10)  
treatment.

Hb (B.T.)	6.8	8.2	7.5	6.2	9.2	6.1	8.5	9.0	10.1	6.9
Hb (A.T.)	9.1	9.0	11.0	10.1	9.6	7.2	9.4	9.1	10.5	7.2

- Q.7** Write **ANY THREE** short notes out of four. (15)
- a) Standard error
  - b) Wilcoxon test
  - c) ANOVA
  - d) Dependent variable

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